

## Water fern Azolla filiculoides



Habitat: Aquatic, freshwater Family name: Salviniaceae Common name: Water Fern





**Description:** Very small free-floating water plant that forms dense mats. Unmistakeable when in its red form and relatively easy to distinguish from duckweeds in its green form.



Plants can be present year round, but often die back in winter. Colour can vary considerably through the year. Green in spring/summer often turns red during cold weather in autumn/winter.

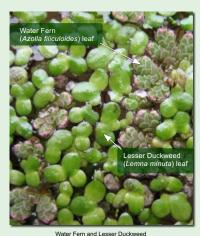
Water fern's outcompetes native species by forming a dense covering on the surface of the water, blocking out light, causing de-oxygenation, preventing air-



breathing insects from reaching the surface and reducing water temperatures. Dense and continuous stands can be a health hazard as the water surface appears solid.



Water Ferns (Azolla filiculoides) are often confused with Lemna minuta, Azolla cristata and Azolla pinnata.



Lemna minuta or Lesser Duckweed. is smaller than Water Fern, with singlular leaves measuring between 1.5mm to 4mm wide and a single pale green or white root attached to each leaf.

To distinguish Azolla filiculoides from Azolla cristata, examine the trichomes (small protuberances that create water resistance) on the upper surfaces of the leaves.

In Azolla filiculoides leaves are unicellular (single celled), Whereas Azolla cristata leaves are septate (two-celled).







50 μ m

Water fern spreads mainly vegetatively, though it can produce minute spores.

Brown hair-like roots hang below the surface of free floating leaves. roots easily break and form new plants.

Leaves are normally green, often developing a reddish tinge in autumn and becoming completely red when exposed to cold temperatures, brackish waters or shading

